



US 20140242942A1

(19) United States

(12) Patent Application Publication

Gleinig et al.

(10) Pub. No.: US 2014/0242942 A1

(43) Pub. Date: Aug. 28, 2014

(54) OPTIMIZATION OF ONLINE CHARGING TRIGGERS IN COMMUNICATION NETWORKS

(75) Inventors: Uwe Gleinig, Berlin (DE); Gerald Goerner, Wandlitz (DE)

(73) Assignee: NOKIA SOLUTIONS AND NETWORKS OY, Espoo (FI)

(21) Appl. No.: 14/240,445

(22) PCT Filed: Aug. 25, 2011

(86) PCT No.: PCT/EP2011/064681

§ 371 (c)(1),
(2), (4) Date: May 1, 2014

Publication Classification

(51) Int. Cl.

H04M 15/00

(2006.01)

(52) U.S. Cl.

CPC H04M 15/885 (2013.01); H04M 15/64

(2013.01); H04M 15/62 (2013.01)

USPC 455/406; 455/26.1

(57) ABSTRACT

Devices, methods, and computer program products can comprise a processor module, configured to execute part of an application. The application can be for use in a communication control service. The processor can be configured to store information in a respective data structure (ASI). The device can comprise a transceiver module, configurable to send the respective data structure carrying the service feature execution results, via one of a first and a second interface conforming to different interface protocols. A controller module can block the first of the two interfaces, and is configured, in some cases to control the transceiver module to propagate the respective data structure carrying the information of the service feature execution results via the second interface. When a configuration is not blocking the first interface towards a charging system, the controller module controls the transceiver module so as to transmit the respective data structure towards the charging system.

